

Алматы (7273)495-231  
 Ангарск (3955)60-70-56  
 Архангельск (8182)63-90-72  
 Астрахань (8512)99-46-04  
 Барнаул (3852)73-04-60  
 Белгород (4722)40-23-64  
 Благовещенск (4162)22-76-07  
 Брянск (4832)59-03-52  
 Владивосток (423)249-28-31  
 Владикавказ (8672)28-90-48  
 Владимир (4922)49-43-18  
 Волгоград (844)278-03-48  
 Вологда (8172)26-41-59  
 Воронеж (473)204-51-73  
 Екатеринбург (343)384-55-89

Ижевск (3412)26-03-58  
 Иваново (4932)77-34-06  
 Иркутск (395)279-98-46  
 Казань (843)206-01-48  
 Калининград (4012)72-03-81  
 Калуга (4842)92-23-67  
 Кемерово (3842)65-04-62  
 Киров (8332)68-02-04  
 Коломна (4966)23-41-49  
 Кострома (4942)77-07-48  
 Краснодар (861)203-40-90  
 Красноярск (391)204-63-61  
 Курск (4712)77-13-04  
 Курган (3522)50-90-47  
 Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13  
 Москва (495)268-04-70  
 Мурманск (8152)59-64-93  
 Набережные Челны (8552)20-53-41  
 Нижний Новгород (831)429-08-12  
 Новокузнецк (3843)20-46-81  
 Ноябрьск (3496)41-32-12  
 Новосибирск (383)227-86-73  
 Омск (3812)21-46-40  
 Орел (4862)44-53-42  
 Оренбург (3532)37-68-04  
 Пенза (8412)22-31-16  
 Петрозаводск (8142)55-98-37  
 Псков (8112)59-10-37  
 Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15  
 Рязань (4912)46-61-64  
 Самара (846)206-03-16  
 Саранск (8342)22-96-24  
 Санкт-Петербург (812)309-46-40  
 Саратов (845)249-38-78  
 Севастополь (8692)22-31-93  
 Симферополь (3652)67-13-56  
 Смоленск (4812)29-41-54  
 Сочи (862)225-72-31  
 Ставрополь (8652)20-65-13  
 Сыктывкар (8212)25-95-17  
 Сургут (3462)77-98-35  
 Тамбов (4752)50-40-97  
 Тверь (4822)63-31-35

Тольяти (8482)63-91-07  
 Томск (3822)98-41-53  
 Тула (4872)33-79-87  
 Тюмень (3452)66-21-18  
 Улан-Удэ (3012)59-97-51  
 Ульяновск (8422)24-23-59  
 Уфа (347)229-48-12  
 Хабаровск (4212)92-98-04  
 Чебоксары (8352)28-53-07  
 Челябинск (351)202-03-61  
 Череповец (8202)49-02-64  
 Чита (3022)38-34-83  
 Якутск (4112)23-90-97  
 Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

<https://grant.nt-rt.ru> || [gtq@nt-rt.ru](mailto:gtq@nt-rt.ru)

## АКСЕССУАРЫ

### Accessories

### Communications accessories

#### GSM modem kit\*

- » Allows connection to any Squirrel data logger remotely
- » Uses GSM cellular network, ideal where no land lines are available
- » Operates on Quad band versions 850/900/1800 MHz and 1900 MHz
- » Suitable for most applications including use at urban sites, remote sites or in mobile applications
- » Collects data at speeds up to 9600 baud
- » Supplied with connecting cable, power lead and antenna



Order code: SQ20A802

#### GSM modem kit\*\* - specification

Power supply (external adaptor cable included to power from optional SQ mains adapter – MPU12)	5.5 to 32 VDC
Current consumption (when transmitting)	< 480 mA @ 5.5V
Current consumption (when in standby)	< 20 mA
Environmental operating temperature	-30 to +75°C
Sensitivity (SMA antenna connector, operates on quad band versions 850/900/1800 & 1900MHz systems)	108 dB @ 900 MHz
Communication	V24 / RS232C, 9 pin sub-D 2.4, 4.8, 9.6, 14.4 kb/s
LED indicators	for CD, RI and GSM contact
Dimensions (l x w x h)	73 x 54.5 x 25.5 mm, weight 80 g

\* Requires a modem with analogue phone line on receiving PC

\*\*Grant software and data cable required (along with data enabled SIM card from mobile phone service provider)

#### RS232 to Ethernet converter (1-F8, Wi-Fi and SQ2010 loggers only)

- » Converts the original Squirrel data logger's RS232 output into Ethernet for remote or distributed monitoring
- » Allows the logger to plug in at any point on an existing Ethernet network making data easily accessible to anyone
- » No modification to logger required (needs an external mains power pack for Netport to operate)
- » Requires an existing Ethernet network for connection



Order code: SQ20A801

#### RS232 to Ethernet converter - specification

Power requirements (external adaptor cable included, powered from optional SQ mains adapter – MPU12)	7.5 to 24 VDC 240 mA @ 7.5V, 75 mA @ 24V
Environmental operating temperature	+5 to +50°C
Dimensions (l x w x h)	28 x 42 x 65 mm

#### Wireless RS232 converters (set of 2: for PC & logger)

- » Transmits the Squirrel data logger's RS232 output wirelessly to a PC running SquirrelView
- » Maximum range is 500m using an external antenna (100m as standard)
- » Baud rates of up to 116 K; 2.4GHz frequency
- » Plug and play configuration and via the in-built communications wizard in SquirrelView
- » External adaptor cable included, powered from SQ mains power pack MPU12



Order code: SQ20A803

# Accessories

## Protective enclosures

### Weatherproof enclosures

A range of enclosures and carrying cases to suit all Squirrel data loggers to protect them in harsh operating environments.

- » Robust, plastic, waterproof cases (which can be padlocked) for maximum protection and security in harsh environments
- » PEL4 for SQ2020/2040 data loggers, size: 41cm x 33cm x 18cm
- » PEL1 for SQ2010 data logger, size: 34cm x 29cm x 15cm. Other sizes also available to order
- » Standard enclosures with protection rating up to IP65
- » Optional industrial enclosures giving protection up to IP68
- » Customisable to suit specific applications



Squirrel QQ610 in weatherproof case



Squirrel 2020 in an electrical enclosure



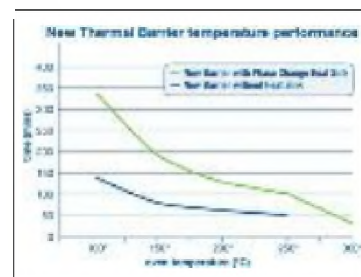
Squirrel QQ610 in thermal barrier

### Thermal barriers

Thermal barriers are insulated containers designed to keep heat out so that the Squirrel data logger inside remains at a safe operation temperature for a specified duration.

- » Provides protection to Squirrel data loggers when used in high temperature oven profiling applications (static or conveyor)
- » A range of standard and customised models with different performance characteristics
- » Made from stainless steel, for years of use
- » Barriers available for very high temperature applications – manufactured to order
- » Suitable for applications in food, powder coating, stove enamelling, ceramic, kiln and furnace
- » Can be constructed using special phase change material for added protection for very high temperature applications.

Barrier		TB612 with Heat Sink					TB610 without Heat Sink				
Temp	°C	100	150	200	250	300	100	150	200	250	
Duration	mins	340	195	130	100	30	140	80	60	50	
Size (l x w x h)	mm	245 x 245 x 115									
Weight	kg	6					4				



# Accessories

## Temperature and Humidity Probes

Grant manufactures a comprehensive range of robust, high quality temperature probes with a choice of sensor and in a variety of physical styles for use with Squirrel data loggers.

In addition to the standard range of temperature probes Grant is able to customise probes for special applications.

Grant is able to supply humidity probes and current transducers and to provide guidance on suitable sensors for measuring a wide variety of other physical parameters.



### Grant temperature probes

- » Choice of thermistors, thermocouple and platinum resistance sensors
- » Wide range of physical styles
- » High quality robust construction for long life
- » Test and calibration traceable to national standards
- » Optional UKAS certification
- » Choice of cables and connectors for different applications
- » 3 year guarantee against faulty materials and workmanship



### Thermistors

- » Larger electrical signal for a given temperature change than other sensors
- » Fast response time
- » High accuracy (U type  $\pm 0.2^{\circ}\text{C}$ , UU type  $\pm 0.1^{\circ}\text{C}$ )
- » Preferred sensor over the operating range  $-50$  to  $+150^{\circ}\text{C}$
- » Long cable lengths possible without significant errors
- » Mini thermistors available for miniature/needle probes



Code	Max Temp ( $^{\circ}\text{C}$ )	Resistance (@ $25^{\circ}\text{C}$ )	Accuracy (@ 0 to $70^{\circ}\text{C}$ )
U	150	2K Ohms	$\pm 0.2^{\circ}\text{C}$
UU	150	2K Ohms	$\pm 0.1^{\circ}\text{C}$
SU	120	2K Ohms	$\pm 0.2^{\circ}\text{C}$

### Mains Power Adaptors

**MPU 12V** - universal mains adaptor (power supply) for use with the Squirrel data loggers 97-263V AC at 50 / 60Hz input. Supplied with 3 socket adaptors for use in the UK, Europe and the USA.

**MPU 12VFL** - as MPU 12V but supplied with a flying lead (no plug at the mains end).



## Thermocouple probes for paint oven profiling systems (Squirrel OMK610)

The K-type (NiCr-Ni) thermocouples are constructed to be very flexible and durable. They are triple insulated (Teflon-copper-Teflon) and meet the strict requirements of the DIN IEC 60584-2 standard. They are terminated with a standard miniature thermocouple plug (to IEC584) and are double crimped for additional strength.

- » Suitable for temperatures from -25°C up to +250°C
- » Fast response time
- » Moderate accuracy (0.5°C)
- » Suitable for a wide range of applications from delicate to heavy industrial

### Probe

Available in 1.5, 3.0 or 6.0m cable lengths. Fast response due to small mass and good air flow through the sensor tip



### Clip Surface Probe

- » Available in 1.5, 3.0 or 6.0m cable lengths
- » Suitable to clip to a nonmagnetic component
- » Curved PTFE mounted sensor ensures good surface contact



### Magnetic Surface Probe

- » Available in 1.5, 3.0 or 6.0m cable lengths
- » PTFE probe grip for safe removal with flexible metal probe arm giving excellent surface contact



Probes			
Description Part Number / Cable Length	1.5m (4'9")	3m (9'8")	6m (19'7")
Clamp Air Probe	CAP-K-G1.5-3	CAP-K-G3-3	CAP-K-G6-3
Magnetic Air Probe	MAP-K-G1.5-3	MAP-K-G3-3	MAP-K-G6-3
Clamp Surface Probe	CSP-K-G1.5-3	CSP-K-G3-3	CSP-K-G6-3
Magnetic Surface Probe	MSP-K-G1.5-3	MSP-K-G3-3	MSP-K-G6-3
Combined Probe Can be used as a Magnetic Air, Magnetic Surface, Clamp Air or Clamp Surface Probe	TC-K-N1.5-3	C-K-N3-3	TC-K-N6-3

## Probe identity tags

These numbered, brass tags (1 to 6) simply attach to the temperature probes to provide channel identification.

Order code: PT-1-6



## Thermocouple adaptors

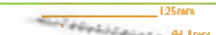







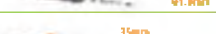




The adaptors allow a K or T type thermocouple connection to be made to the SQ20xx series data logger via a standard miniature thermocouple plug. These are available for either differential (2 way) or single ended (4 way) thermocouple inputs.

SQ20A425 4 way, K-Type adaptor  
SQ20A426 4 way, T-Type adaptor

SQ20A427 2 way, K-Type adaptor  
SQ20A428 2 way, T-Type adaptor

## Grant temperature probes: > summary of specifications

120°C max

Typical application	Probe	Probe ref	Thermistors			Thermocouples		Platinum Resistance			
			standard (U)	high precision (UU)	mini (SU)	Type K	Type T	PT100 2-wire (P2)	PT100 4-wire (P4)	PT1000 2-wire (P5)	PT1000 4-wire (P6)
<b>General purpose:</b> Robust, stainless steel with rounded end, fast response											
Monitoring temperature of air, vapours, liquids, powders, fridges, freezers, food, etc.		CS	VL, F, A	VL, F, A		N, M, X	N, M, D, G	VL, F, A	C, D	VL, F, A	C, D
		CT	VL, F, A	VL, F, A		N, M, X	N, M, D, G	VL, F, A	C, D	VL, F, A	C, D
		CM	VS, F	VS, F		N, M	N, M, G	VS, F		VS, F	
Delrin handle		CH	VS, F	VS, F		N, M	N, M, G	VS, F		VS, F	
<b>General purpose:</b> Exposed junction thermocouples (conductors exposed and welded at tip), fast response, low cost											
Ar, vapours, liquids, powders, fridges, freezers, food, etc.		TH				N, M	N, M				
<b>Surface temperature:</b> Sensor mounted on either copper (EU) or stainless steel base (EUS)											
Monitoring temperature of radiators, pipes, pumps, motors, etc.		EU	VS, VL, F	VS, VL, F		N, M	N, M, G	VS, VL, F			
		EUS	VS, VL, F	VS, VL, F		N, M	N, M, G	VS, VL, F			
<b>Room temperature:</b> Sensor assembly mounted on aluminium bracket. Removable plastic probe to allow for the effect of radiant heat											
Monitoring radiant and air temperature		AG	VS, VL, F	VS, VL, F		N, M	N, M, G				
<b>Specialised miniature - hypodermic and catheter probes</b>											
Hypodermic probe with handle - used in zoological, veterinary, botanical, entomology, micro-climate research		DS			VS, VL, F	N, M	N, M, G				
		DM			VS, VL, F	N, M	N, M, G				
Catheter probe (sensor at end of flexible nylon tubing) - used in incubation, crystallisation etc.		FF	VS, VL, F, A	VS, VL, F, A							
<b>Insertion (solid):</b> Stainless steel sheath with pointed end for easy insertion into / withdrawal from solid material											
For soil, frozen food, ice, etc.		CMP	VS, F	VS, F		N, M	N, M, G	VS, F		VS, F	
<b>Insertion (soft):</b> Sensor sealed into smooth, flexible, translucent PVC tubing smoothly fused onto cable											
Delicate applications requiring flexible soft insertion		REC	VL	VL							
For ear		EAR	VS	VS							
<b>Accuracy</b>			±0.2°C	±0.1°C	±0.2°C	±1.5°C	±0.5°C	±0.3°C	±0.3°C	±0.3°C	±0.2°C
<b>Operating range</b>			-50 to +150°C	-50 to +150°C	-50 to +120°C	-25 to +250°C	-25 to +250°C	-50 to +250°C	-50 to +250°C	-50 to +250°C	-50 to +250°C

VL, F, A, N, M, etc = suitable cable types (see separate key below)

Cables for Grant temperature probes		Cable operating range (°C)	Max. Ø (mm)	Max length (m)	Connectors supplied	
					Isa-ended	Thermocouple plug
<b>Cable for thermistors and 2-wire PT100 and 2-wire PT1000</b>						
VL	PVC large coaxial, general purpose, water resistant, flexible	-10 to +105	3.1	500	✖	✖
VS	PVC small coaxial, lightweight, water resistant, flexible	-10 to +105	2.0	5	✖	✖
F	PTFE coaxial, good mechanical strength & flexibility, resistant to oils, acids, etc	-50 to +250	2.4	500	✖	✖
A	Polyethylene 2-core, low temperature, heavy duty waterproof	-20 to +80	4.0	300	✖	✖
<b>Cable for 4-wire PT100 and 4-wire PT1000</b>						
C	PVC 4-core insulated, general purpose, water resistant, flexible	-10 to +105	3.5	100	✖	✖
D	PTFE 4-core insulated, good mechanical strength & flexibility, resistant to oils, acids etc	-50 to +250	3.8	100	✖	✖
<b>Cable for thermocouples</b>						
N	PTFE flat 2-core, good mechanical strength & flexibility, resistant to oils, acids, etc.	-50 to +250	2.1	50	✖	optional
M	PTFE twisted 2-core, good mechanical strength & flexibility, resistant to oils, acids, etc.	-50 to +250	2.0	15	✖	optional
O	PTFE 2-core round, good mechanical strength & flexibility, resistant to oils, acids, etc.	-50 to +250	2.5	15	✖	optional
<b>Connector options</b>		<b>Code</b>	<b>Ordering codes</b>			
No Plug		0	Ordering Grant probes is a simple selection process, from the above charts decide the Probe Ref, the sensor type, the cable and length and if a connector is required or not (see example)			
Thermocouple Plugs		3	<div style="display: flex; justify-content: space-around; align-items: center;"> <span>Probe</span> <span>Sensor</span> <span>Cable/Length</span> <span>Connector</span> </div> <div style="text-align: center; font-size: 2em; font-weight: bold; margin-top: 10px;">             CS - U - VL50 - 0         </div>			

Thermocouple extensions and compensating cables » Codes » Conductor combinations » National & International specifications

Thermocouple Conductor Combination Type	Extension and Compensating Cable		International Colour Code To IEC 60584.3:1999 BS EN 60584.3:2006	International Colour Code To IEC 60584.3:1999 BS EN 60584.3:2006 for Intrinsically Safe Circuits	Redundant national colour coding for insulation of thermocouple extension and compensating cable					Tolerance values to IEC 60584.3:1999 (BS EN 60584.3:2006) for extension and compensating cables when used at temperatures within the cable temperature range column shown below.			Notes	
	Extension Cable	Compensating Cable			BRITISH to BS 1343	AMERICAN to ANSI/MQW-1	GERMAN to DIN 43714	FRENCH to NF42324	JAPANESE to JIS C 1610-1991	Tolerance class		Cable Temperature Range °C		Maximum Junction Temperature
			1	Z										
K	KX									±50µV (±1.5°C)	±100µV (±2.5°C)	-25°C to +200°C	900°C	Type KX thermocouple extension cable conductors are made from the same constituent elements as the Type K thermocouple combination and therefore minimises potential errors when connecting to a sensor.
		KCA									±100µV (±2.5°C)	0°C to +150°C	900°C	The compensating cable conductor combination is little known and generally not available. It should not be confused with the more popular Type KCB as shown below.
		KCB									±100µV (±2.5°C)	0°C to +180°C	900°C	This combination (previously known as Type K) is made with Copper vs Copper-Nickel conductors, and should only be used when the ambient temperature of the interconnection points below the cable joints (Type K sensor cable is 100°C).
T	TX								±30µV (±1.5°C)	±60µV (±1.8°C)	-25°C to +180°C	300°C	Type TX extension cable conductors are made from the same constituent elements as the Type T thermocouples. There is no compensating cable available for Type T, however the extension cable is readily interchangeable.	
J	JX								±25µV (±1.5°C)	±140µV (±2.5°C)	-25°C to +200°C	500°C	Type J extension cable conductors are made from the same constituent elements as the Type J thermocouples. There is no compensating cable available for Type J, however the extension cable is readily interchangeable.	
N	NX								±60µV (±1.5°C)	±100µV (±2.5°C)	-25°C to +200°C	900°C	Type N extension cable conductors are made from the same constituent elements as the Type N thermocouples. There is a designed compensating cable for Type N, not readily available.	
		NC								±100µV (±2.5°C)	0°C to +150°C	900°C	Type NC compensating cable is not presently available.	
E	EX								±120µV (±1.5°C)	±200µV (±2.5°C)	-25°C to +200°C	500°C	Type E extension cable conductors are made from the same constituent elements as the Type E thermocouples. There is no compensating cable available for Type E.	
R		RCA							±30µV (±1.5°C)	±60µV (±1.8°C)	0°C to +100°C	1000°C	Type RCA compensating cable is suitable for connecting to Type R thermocouples where the ambient temperature of the interconnection point between the cable and Type R sensor is below 100°C.	
		RCB							±60µV (±1.8°C)	±120µV (±2.5°C)	0°C to +200°C	1000°C	Type RCB compensating cable is suitable for connecting to Type R thermocouples where the ambient temperature of the interconnection point between the cable and Type R sensor is below 200°C.	
S		SCA							±20µV (±1.5°C)	±40µV (±1.8°C)	0°C to +100°C	1000°C	Type SCA compensating cable is suitable for connecting to Type S thermocouples where the ambient temperature of the interconnection point between the cable and Type S sensor is below 100°C.	
		SCB							±60µV (±1.8°C)	±120µV (±2.5°C)	0°C to +200°C	1000°C	Type SCB compensating cable is suitable for connecting to Type S thermocouples where the ambient temperature of the interconnection point between the cable and Type S sensor is below 200°C.	
B		BC											The compensating cable is made from Copper vs Copper conductors. The expected maximum additional deviation when the ambient interconnection point is between 0 and 100°C would be approximately 3.5°C when the measuring junction is at 1400°C.	
G		GC												The compensating cable is made from Alloy 200 vs Alloy 220* and is suitable for use with Type G (formerly W3) Thermocouples.
C		CC												This compensating cable is made from Alloy 405 vs Alloy 405* and is suitable for use with Type C (formerly W5) Thermocouples.
D		DC												This compensating cable is made from Alloy 203 vs Alloy 205* and is suitable for use with Type D (formerly W31) Thermocouples.

\*Codes G, C and D and the cable colours shown are not officially recognised symbols.

## Capacitive humidity and temperature probes

Grant provides the following combined temperature/humidity probe for use with Squirrel data loggers, these can be supplied with the following cable length: 2, 5 or 10 meters.

### Rotronic HYGROMER with Pt100 sensor

- » Sensors protected against dust and pollution inside a robust polycarbonate housing
- » Measurement range -40 to +100°C (0 to 1V); 0 to 100% r.h. (0 to 1V)
- » Fast response time: <0.7s (start-up 3s), accuracy (at +23°C): humidity 0.8% r.h, temperature 0.1°C
- » Operating environment -50 to 100°C and 0 to 100%rh
- » Good long term stability: <1% r.h, 0.1°C./year
- » One year guarantee
- » Dew Point Optional



#### Order Codes:

RHT-0-Z2-0 complete with 2 meters of cable  
 RHT-0-Z5-0 complete with 5 meters of cable  
 RHT-0-Z10-0 complete with 10 meters of cable

## » Connecting your signals

### Differential or single ended inputs?

All Grant Squirrel data loggers in this catalogue are shown with a range of channel options, e.g. 8 to 16 inputs. This refers to their ability to accept either single ended or true differential signals.

**Single-ended inputs** – each input signal has two connection wires. One is connected to a common terminal on the logger (see diagram). This increases the number of inputs possible to the logger, but results in all the connected sensors having an input at a common potential. However, unlike many loggers, the Grant Squirrel allow these common terminals to be at different potentials (on separate connector blocks), optimising the overall system accuracy.

**Differential inputs** – each input signal has two connection wires and the logger measures the difference between them. One wire goes to a positive input and one to a negative input (see diagram). In this case none of the inputs needs to be at the same potential as any of the others.

### Making a choice between single-ended and differential inputs:

Signal leads over a few metres in length?	Choose differential to reduce noise.
Small signals under around 100 mV?	Choose differential to reduce ground and noise errors.
Signals with different grounds, e.g. when signals are remote from each other?	Choose differential to remove ground errors.
Sensors with high resistance such as strain gauges?	Choose differential to remove common mode voltage. High resistance gives greater pick up and thus higher common mode voltage.
Need twice as many inputs and have none of the above problems?	Choose single ended.



Single ended connection



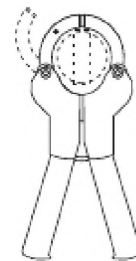
Differential connection

## AC current transducers

These current transducers are used primarily in the building services industry for monitoring AC current. All transducers have a 0 to 1 VDC output and are compatible with all Grant Squirrel data loggers.

### Miniature clip-on AC current transducers (Order codes: BSS 540, BSS 541, BSS 542)

- » Accommodates 15mm diameter cable or 15x17mm bus-bar
- » Choice of two models: 0 to 25A, 0 to 100A
- » BSS 540 accuracy is higher than BSS 541
- » Basic accuracy of  $\pm 0.25$  to  $\pm 3\%$
- » Output: 0 to 1V DC for all ranges
- » Output connection: 4mm safety sockets
- » Operating temperature:  $-10$  to  $+50^{\circ}\text{C}$
- » Max. operating voltage: 650V
- » Dimensions: BSS 540 and BSS 541 - 43x23x125mm (l x w x h)
- » Weight: 125g



BSS 542

### Clamp-on AC current transducers (Order codes: BSS 542)

- » Accommodates 43mm diameter cable
- » Three switch-selectable ranges: 0 to 250A, 0 to 500A, 0 to 1000A
- » Basic accuracy of  $\pm 0.25$  to  $\pm 3\%$
- » Output: 0 to 1V DC for all ranges
- » Output connection: 4mm safety sockets
- » Operating temperature:  $-10$  to  $+50^{\circ}\text{C}$
- » Max. operating voltage: 650V
- » Dimensions: 38x90x205mm (l x w x h)
- » Weight: 550g



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# Other products and services from Grant Instruments

## Eltek telemetry based data logging systems

Grant affiliate Eltek, part owned by Grant Instruments and also based near Cambridge, specialises in the design and manufacture of wireless data logging systems based on the Squirrel data logger. The Eltek GenII radio data logging system enables sensors to be connected to the Receiver Logger by means of a radio link, ideal where communications across a river, road or simply a large site need to be established quickly and effectively. Typical applications include monitoring of buildings (homes, cold stores, warehouses, museums, galleries, etc.), ground water monitoring and 'through process' monitoring in food production.



## DataTaker industrial data acquisition systems

Grant's trading partner dataTaker, is based in Melbourne, Australia. They produce rugged multi-channel data loggers primarily for complex industrial applications which compliment the Squirrel data loggers.



Grant acts as the sole importer and distributor of dataTaker products into the United Kingdom.

## Grant equipment for the laboratory

The Grant Scientific division designs and manufactures a wide range of high quality laboratory equipment used in routine laboratory applications for analytical, diagnostic and research purposes.

Key product groups include temperature controlled baths and circulators for heating and refrigerating, dry block heaters for incubating samples, shaking baths for agitating samples, and ultrasonic baths for cleaning.

Grant affiliate Biosan, co-owned by Grant Instruments, designs and manufactures an innovative and cost-effective range of products designed primarily for life science applications. Biosan, based in Latvia, manufactures the Grant-Bio product range and has an extensive new product development portfolio.



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Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

<https://grant.nt-rt.ru> || [gtq@nt-rt.ru](mailto:gtq@nt-rt.ru)